

0074525-12100

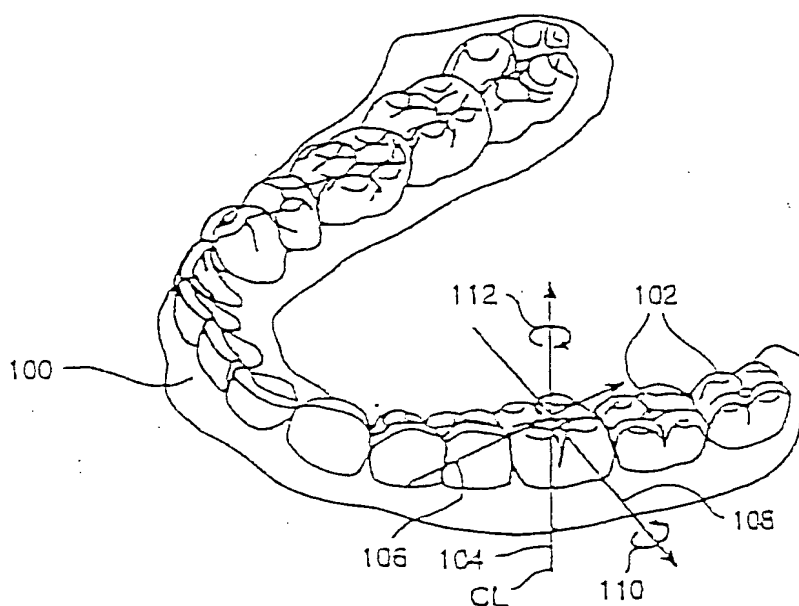


FIG. 1A

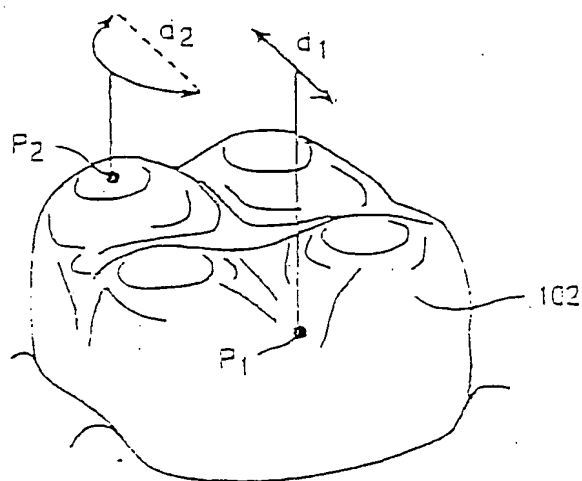


FIG. 1B

BEST AVAILABLE COPY

09745826.123100

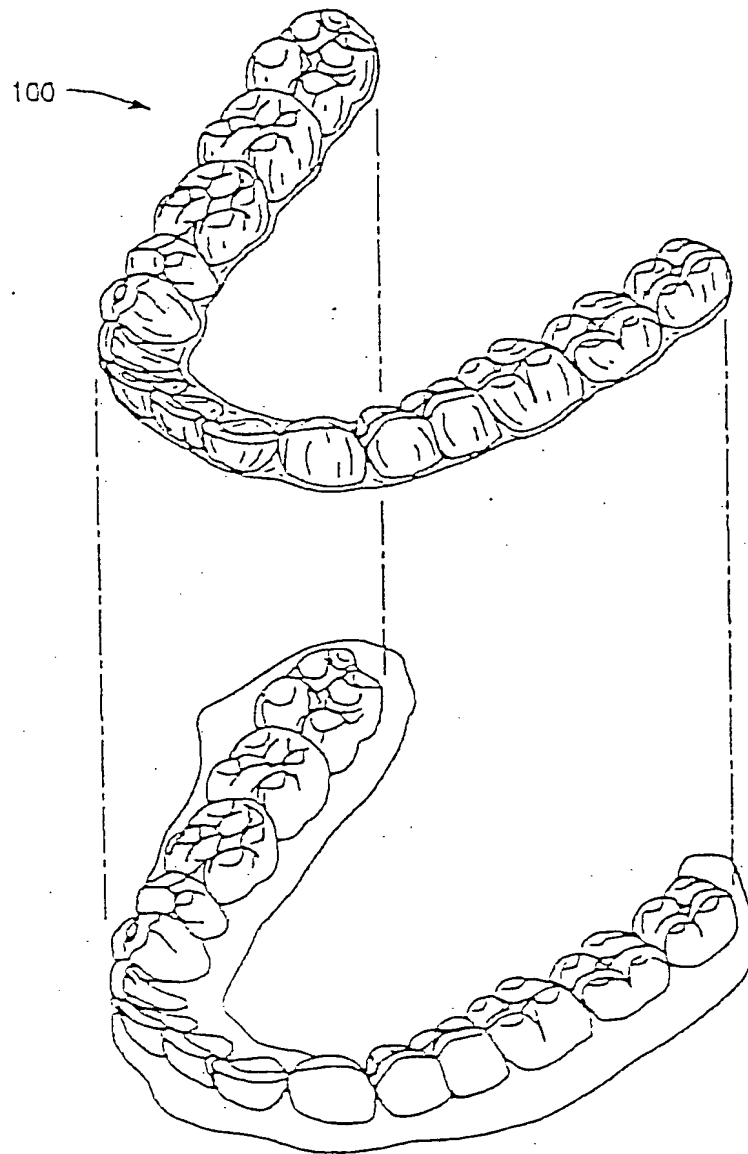


FIG. 1C

09745825 122100

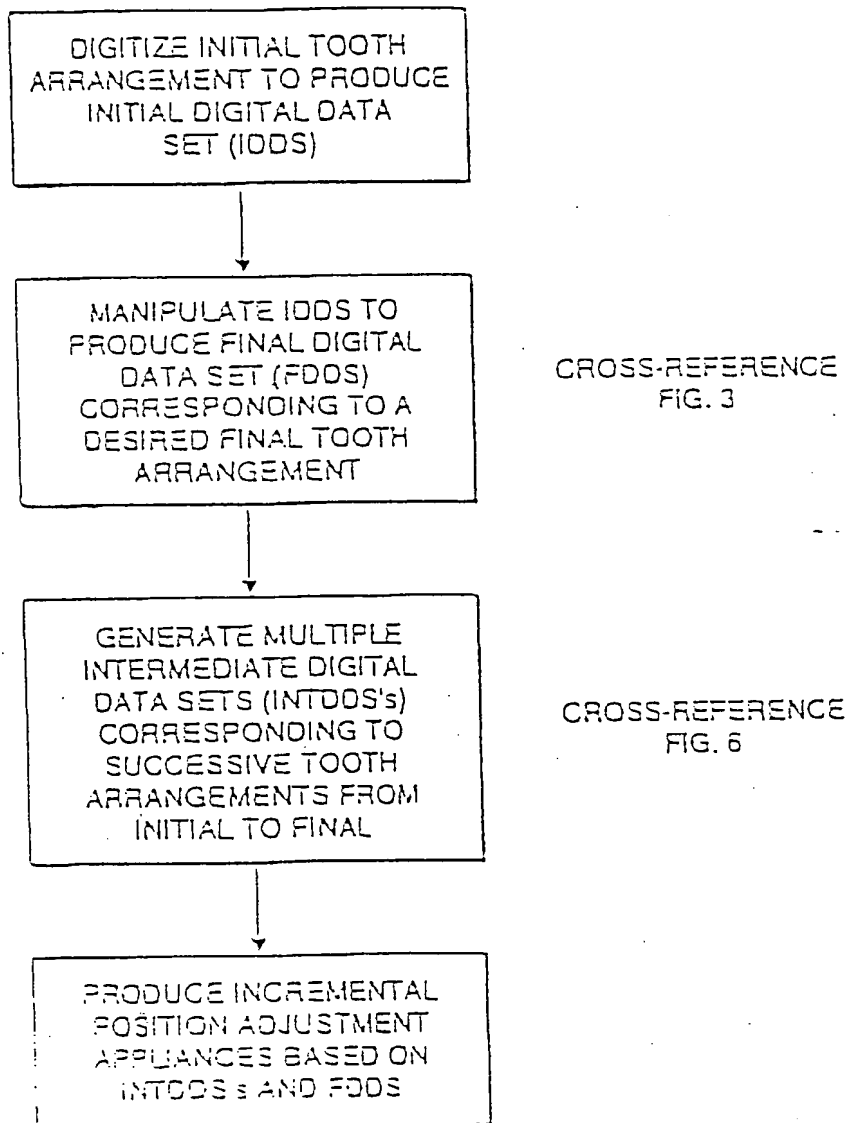
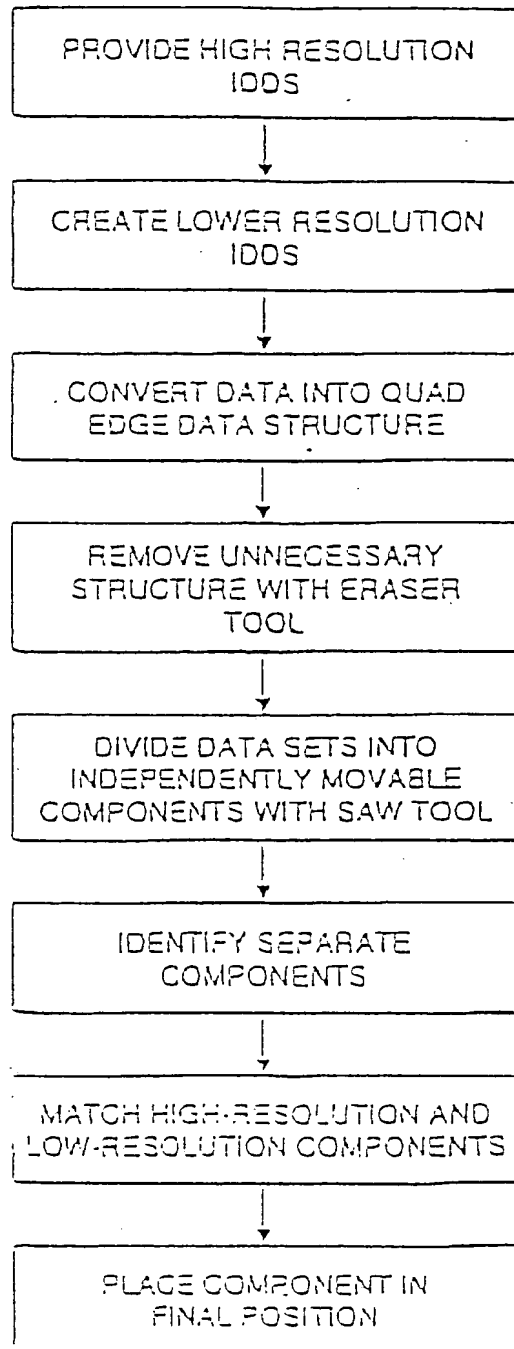


FIG. 2



CROSS-REFERENCE
FIG. 4A

CROSS-REFERENCE
FIG. 5

FIG. 3

007227" 52854/60

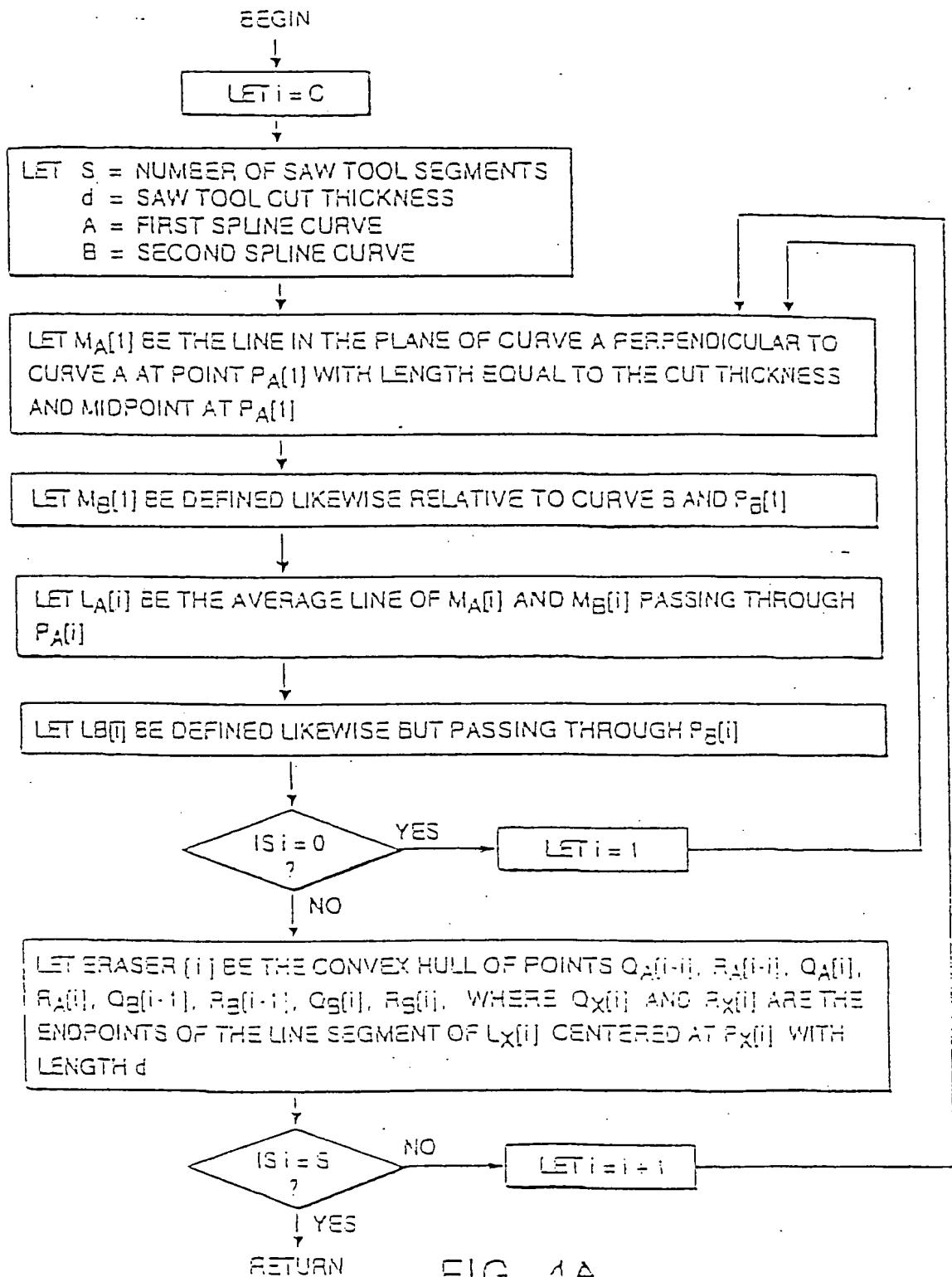


FIG. 4A

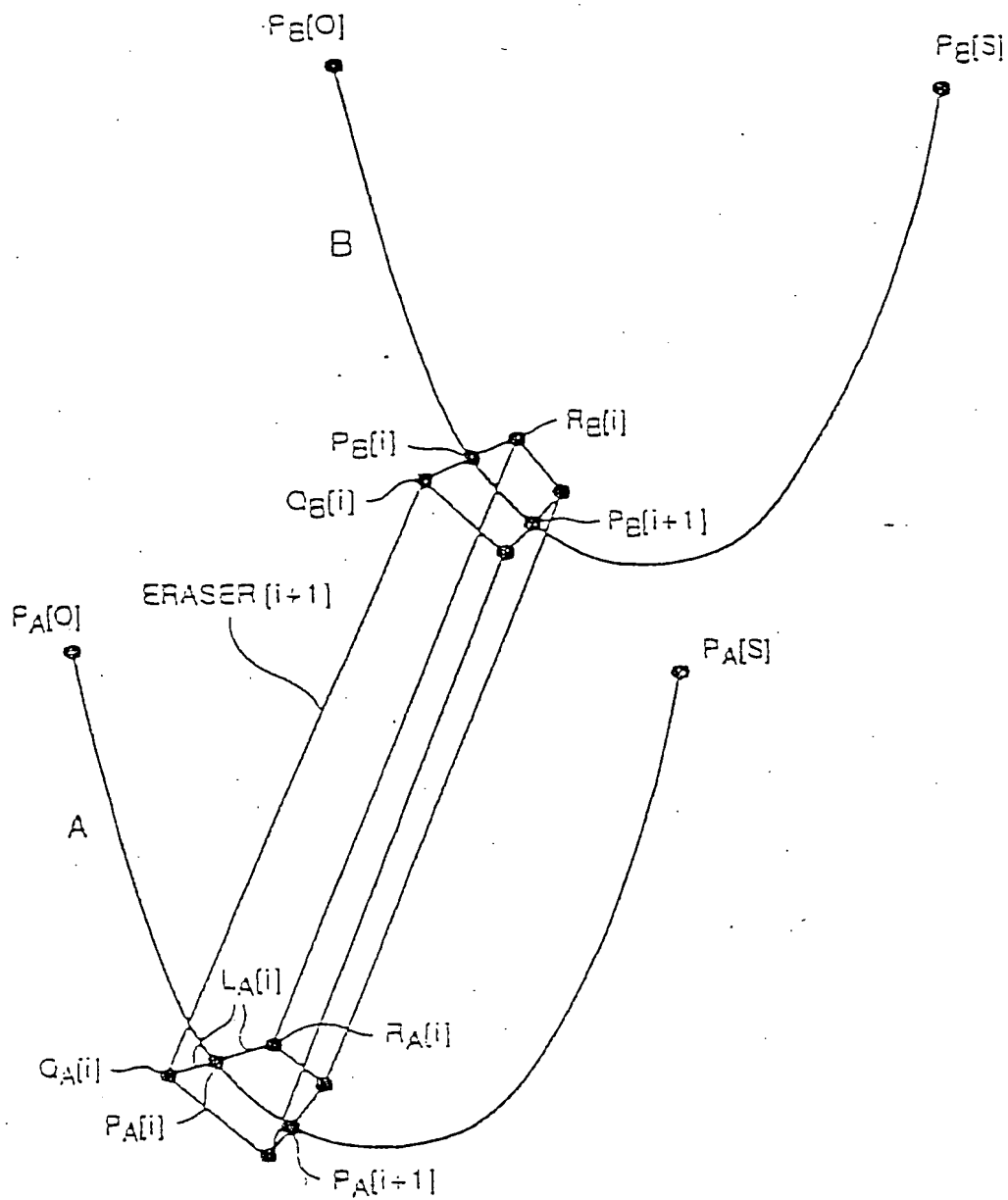


FIG. 4B

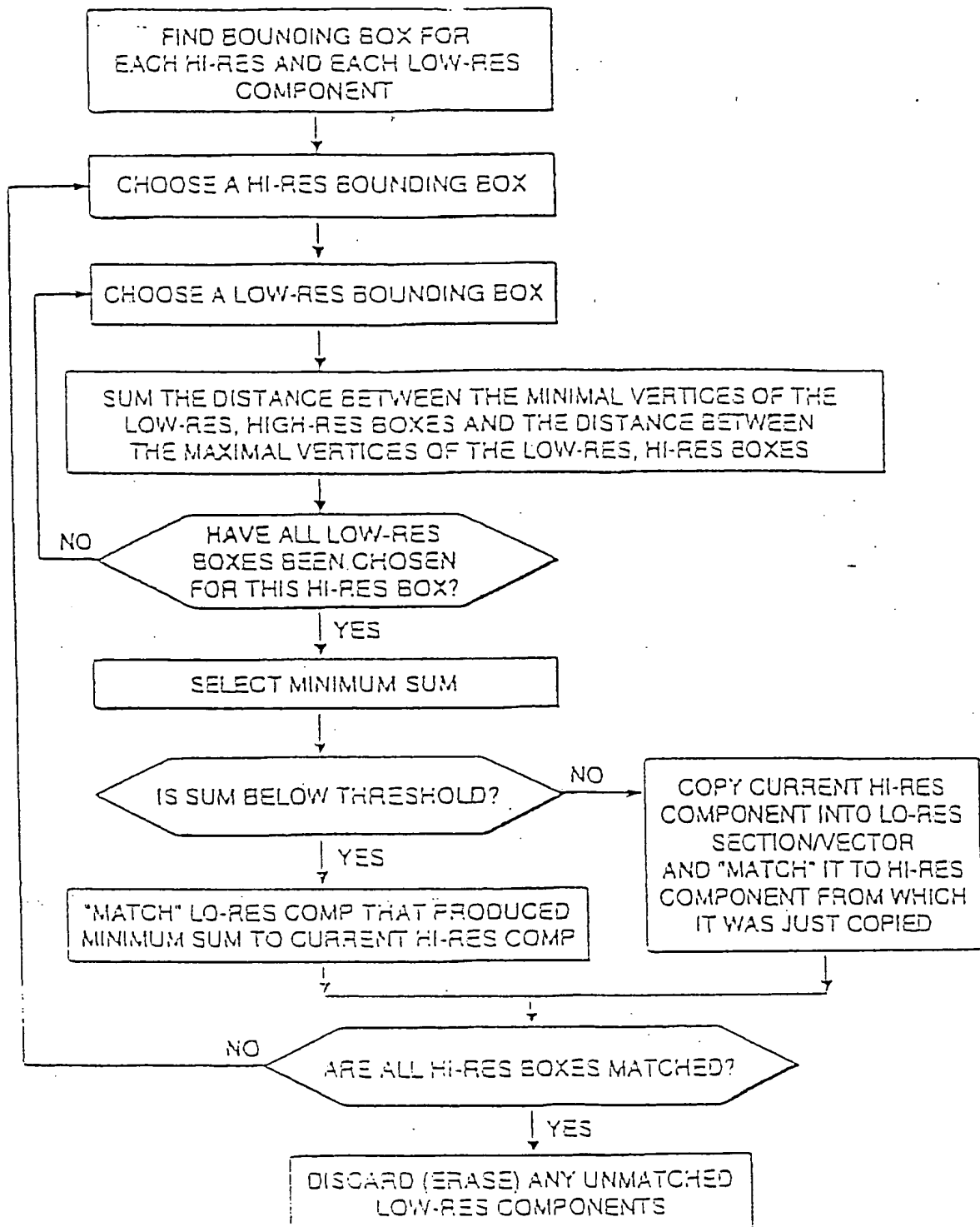


FIG. 5

09745825 122100

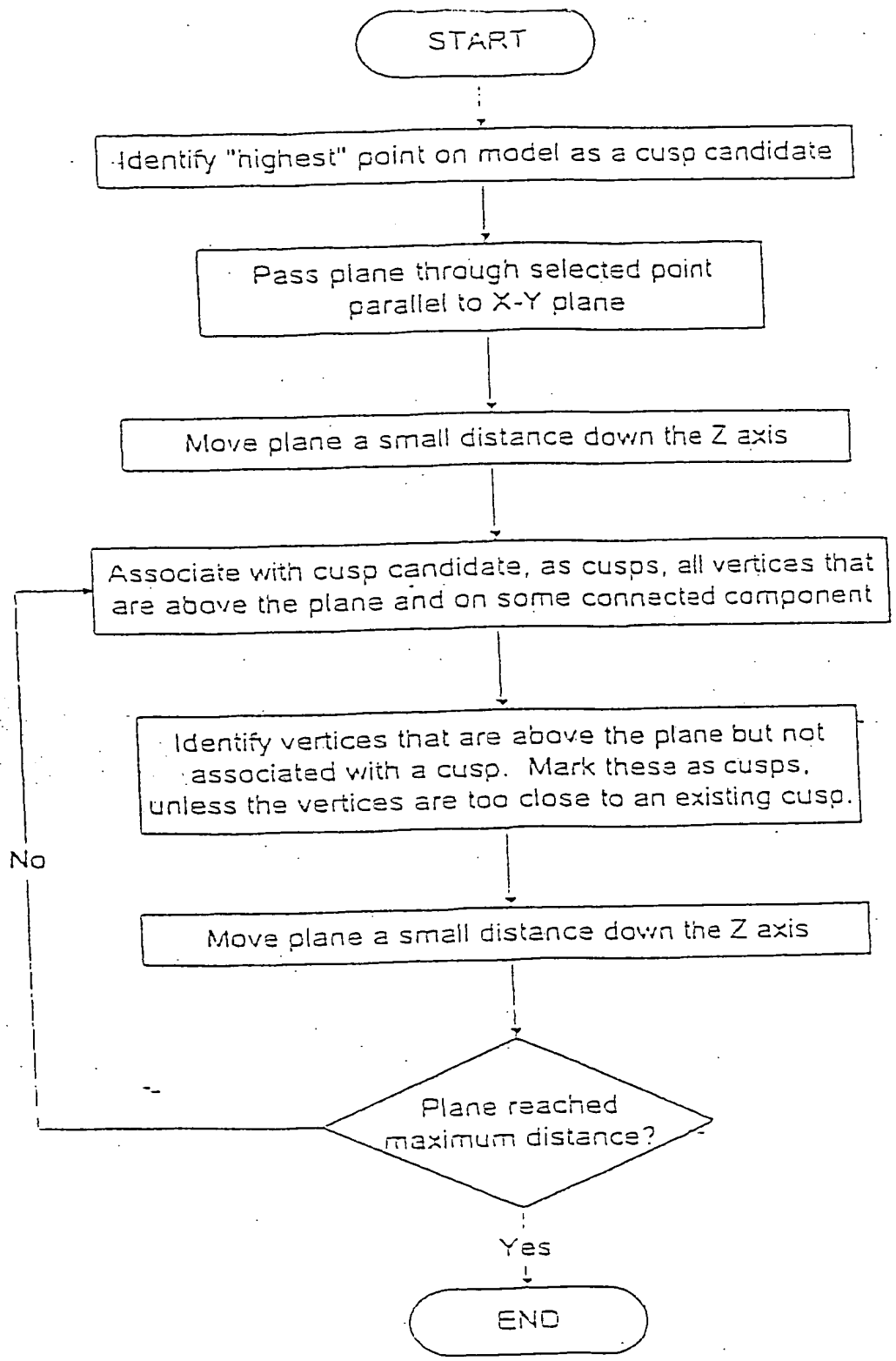


FIG. 6A

00745825 122100

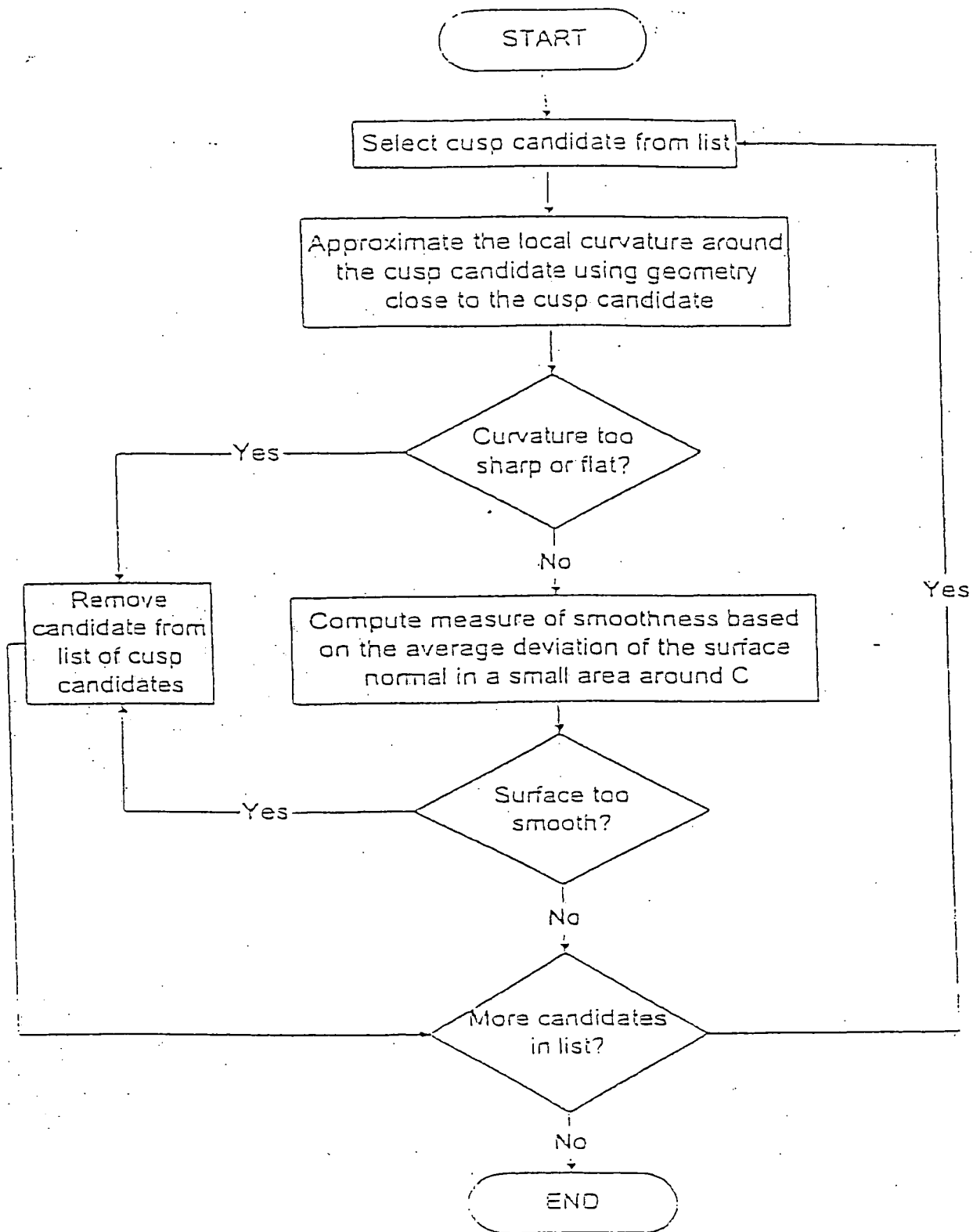


FIG. 6B

097458225 122100

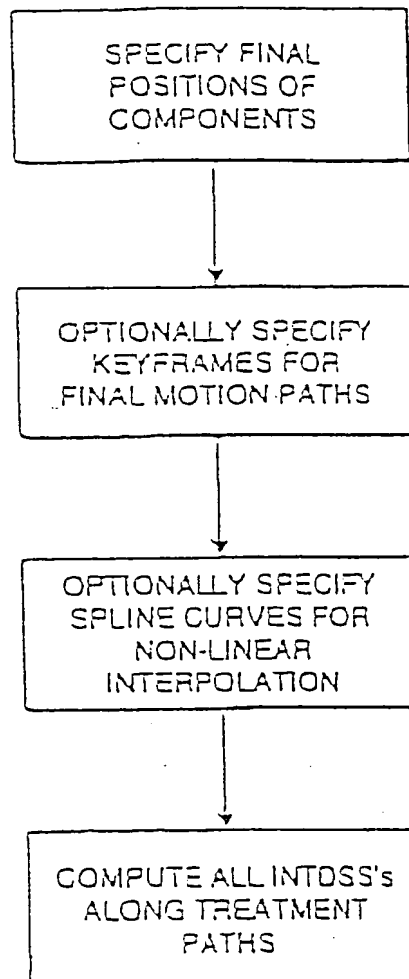


FIG. 7

120

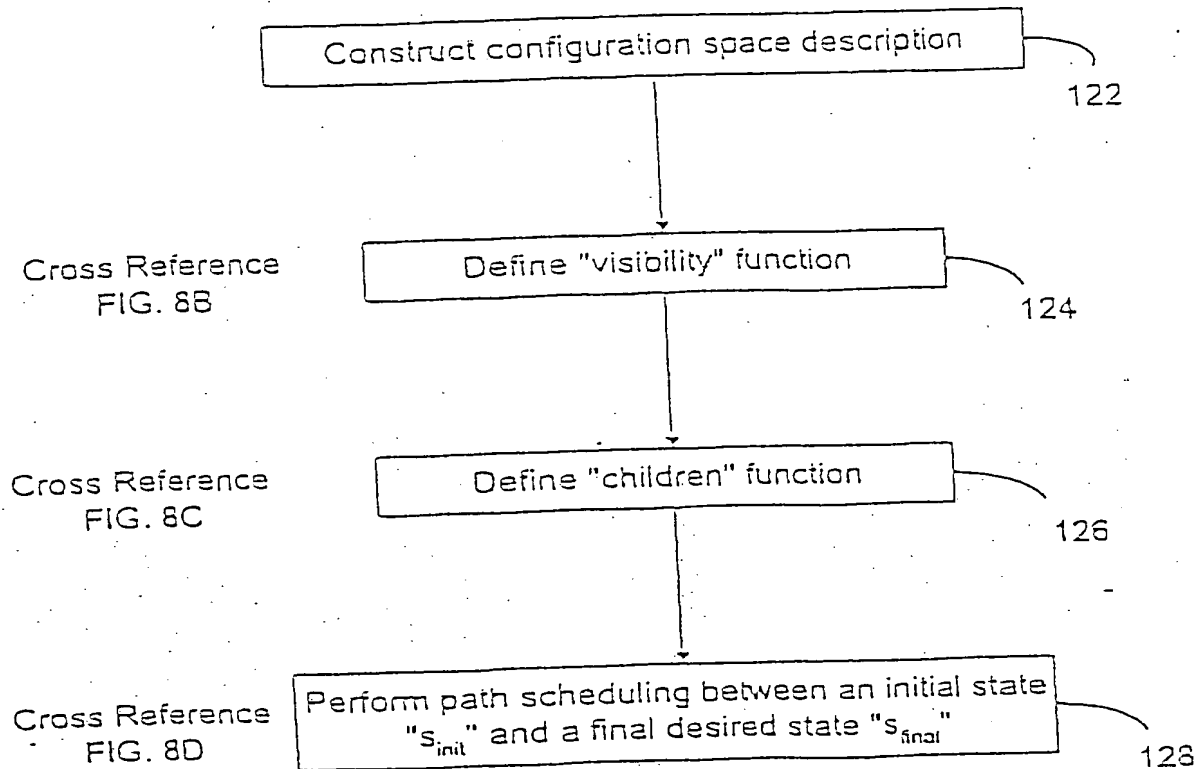


FIG. 8A

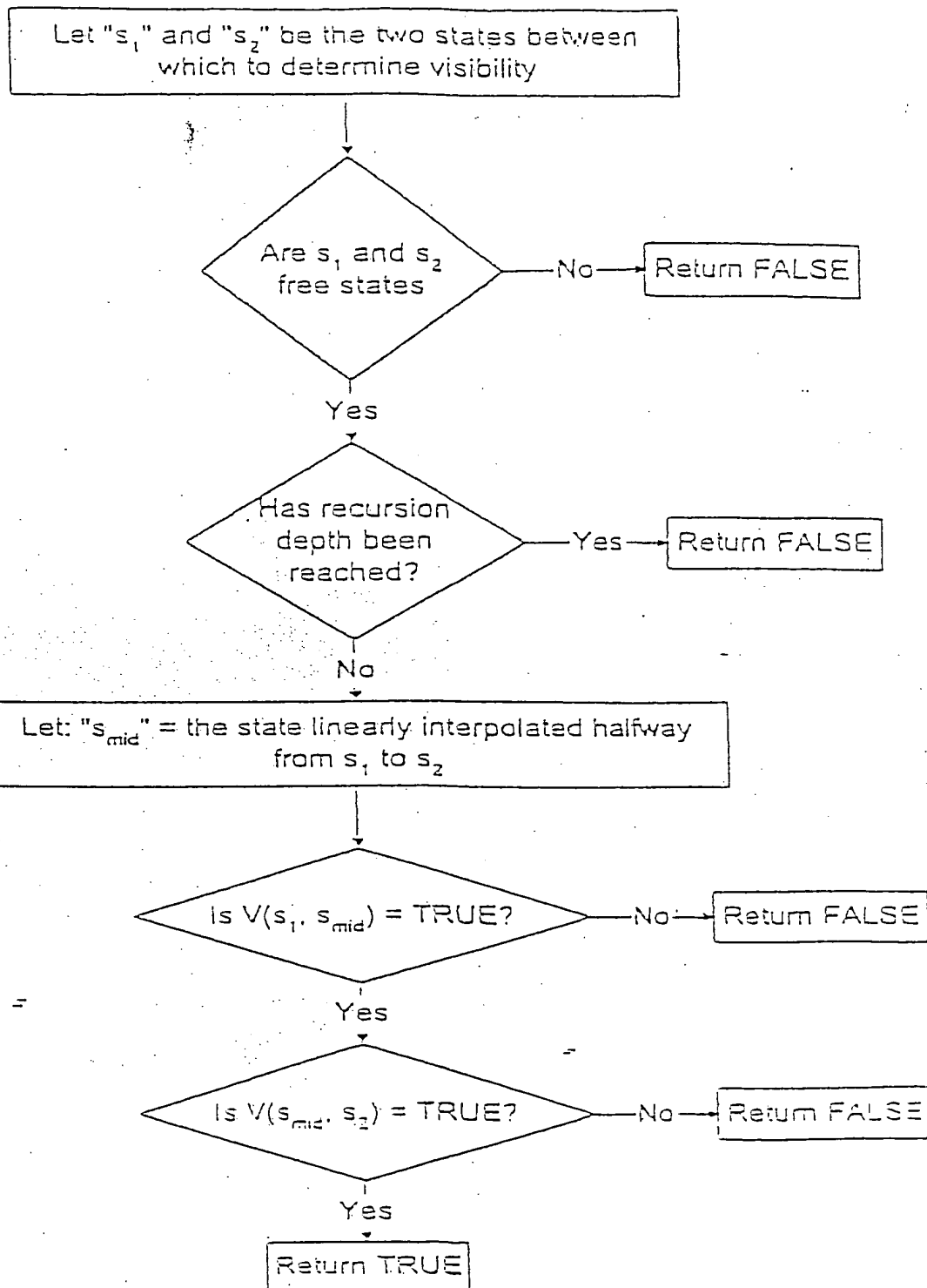


FIG. 8B

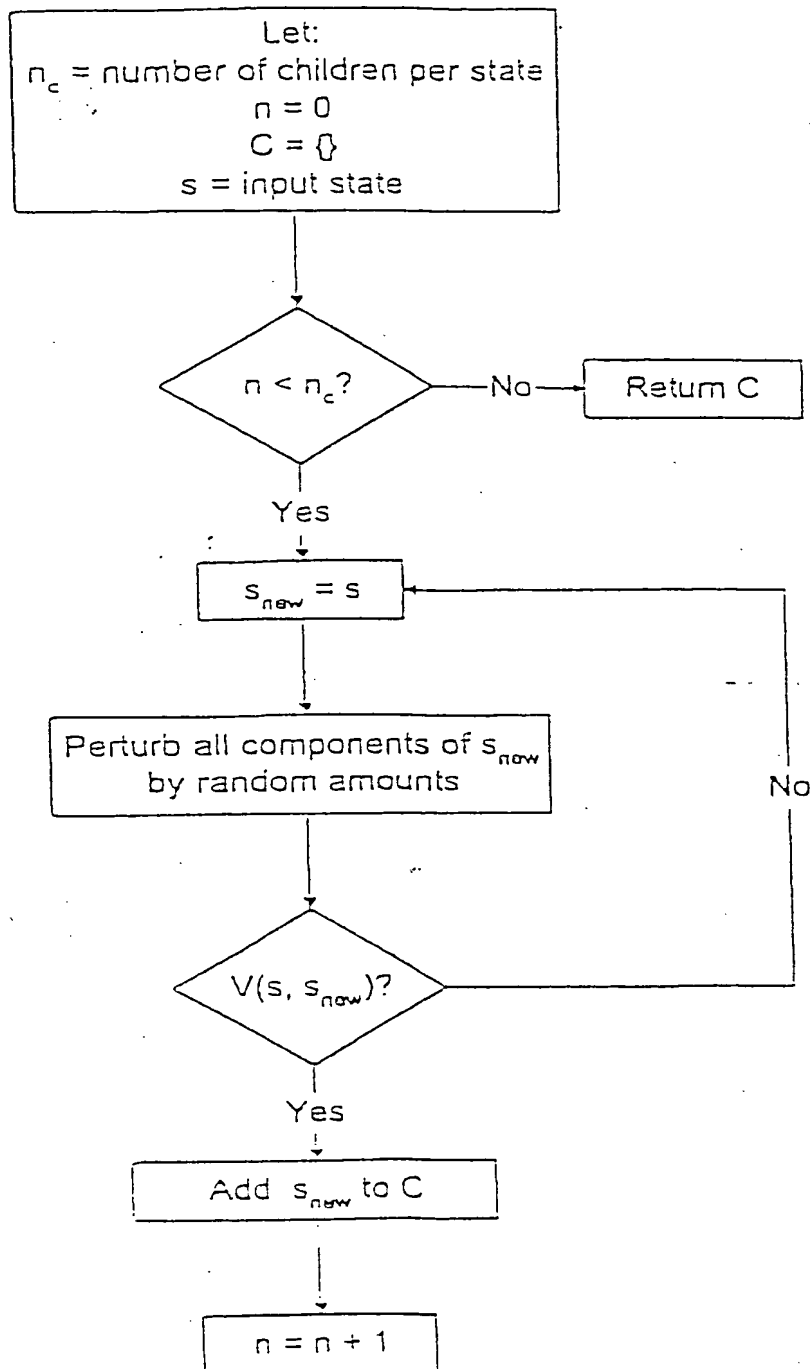


FIG. 8C

126

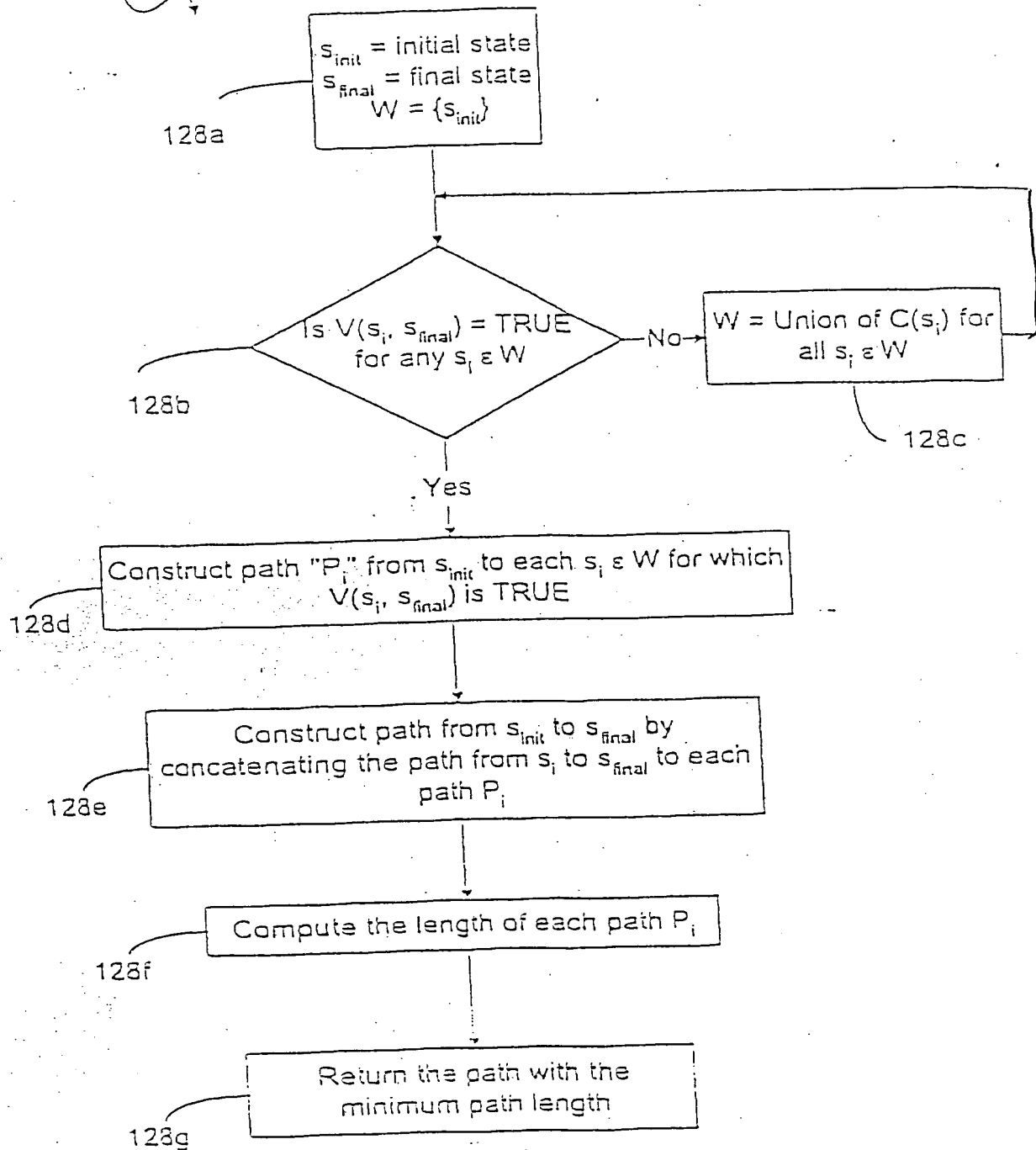


FIG. 8D

START

Do bounding boxes of N1
and N2 overlap?

Yes

Try to split N1 and N2

Does N1 have children
nodes?

Yes

Does N2 have children
nodes?

Yes

Recursively collide:
N1.left and N2.left
N1.left and N2.right
N1.right and N2.left
N1.right and N2.right

No

Recursively
collide:
N1.left and N2
N1.right and N2

No

Does N2 have
children nodes?

Yes

Recursively
collide:
N1 and N2.left
N1 and N2.right

No

Do any triangles
of N1 and N2
overlap?

No

Yes

Add each
overlapping triangle
to overlapping
triangles list

END

FIG. 9A

00745825 121100

00745825-12100

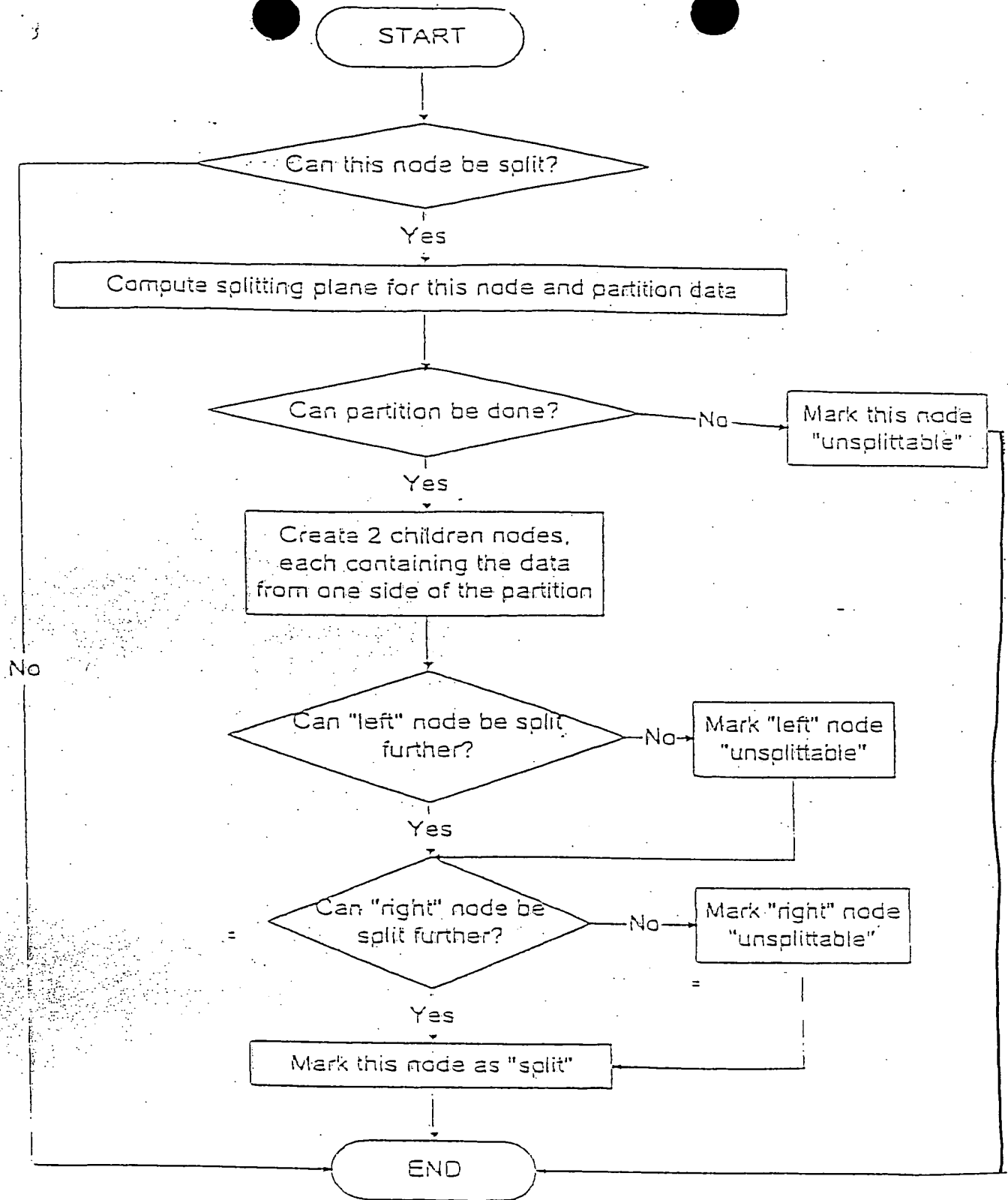


FIG. 9B

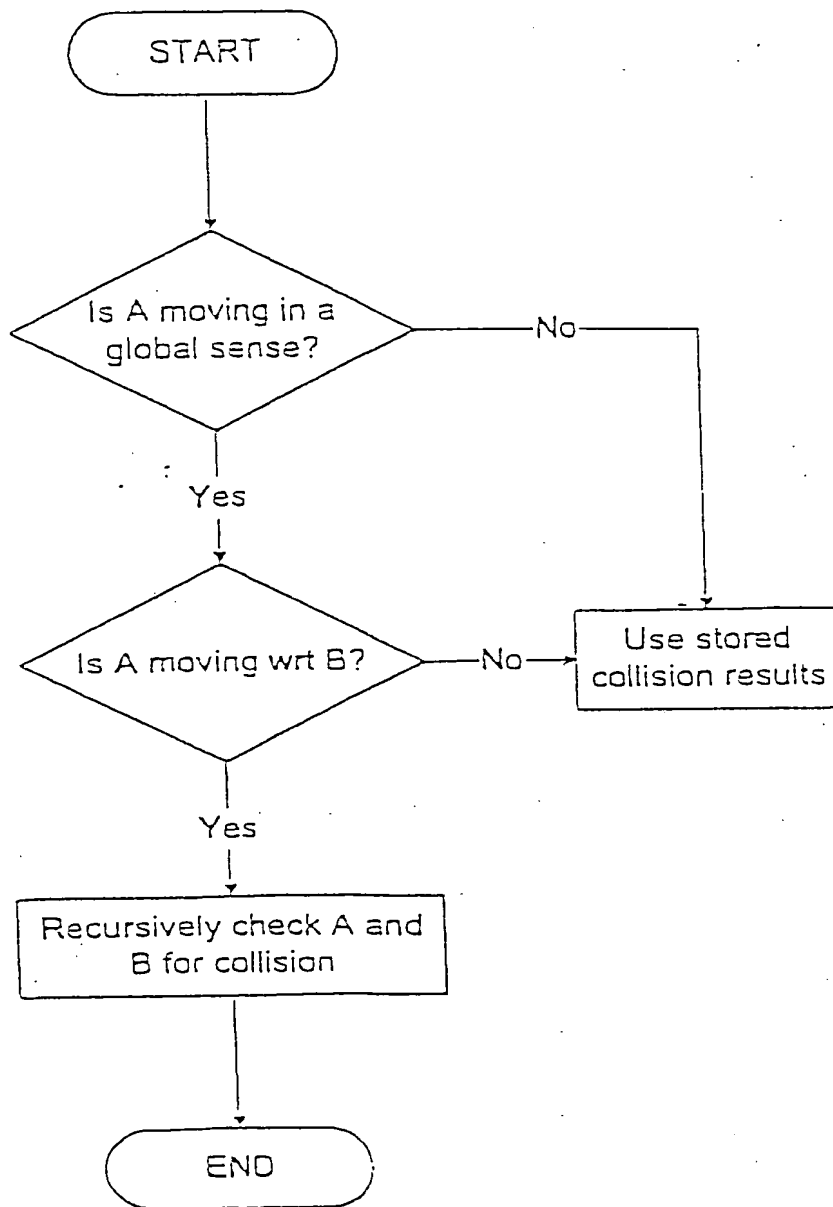


FIG. 9C

09745825 122100

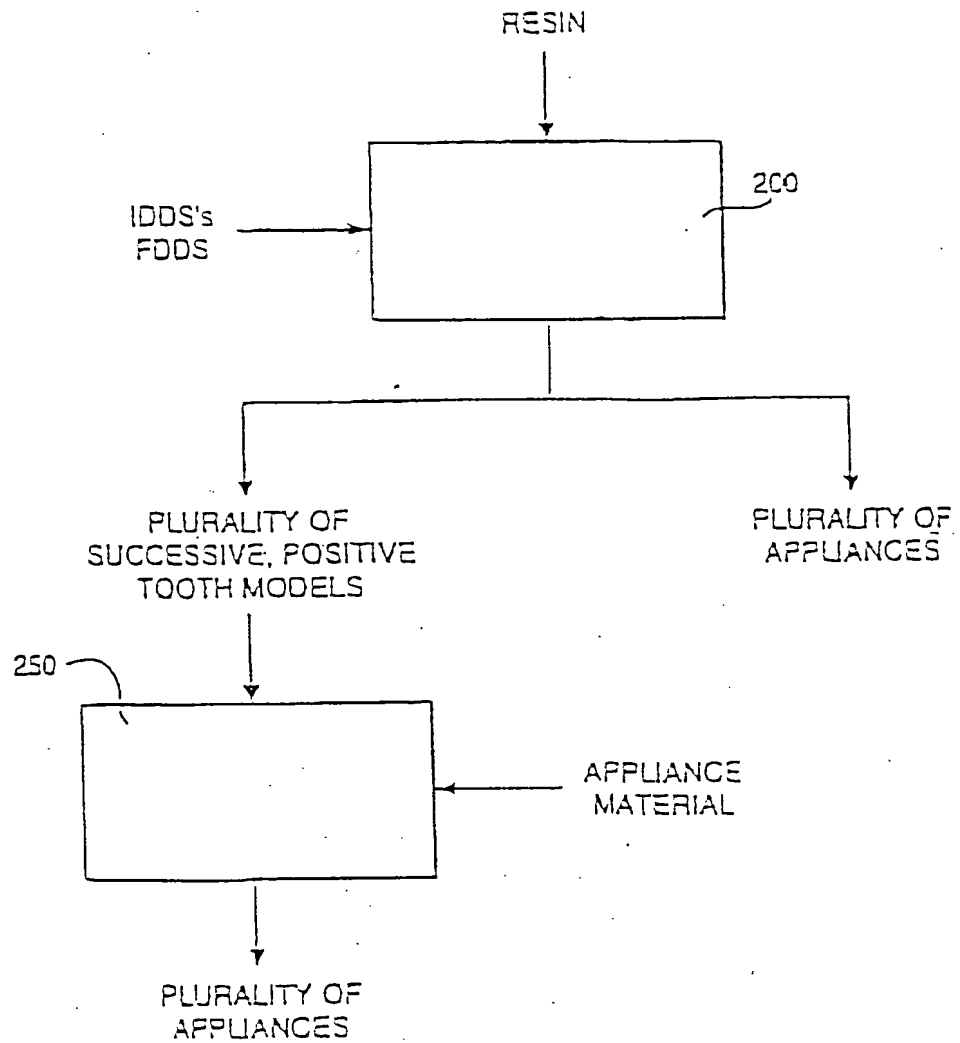


FIG. 10

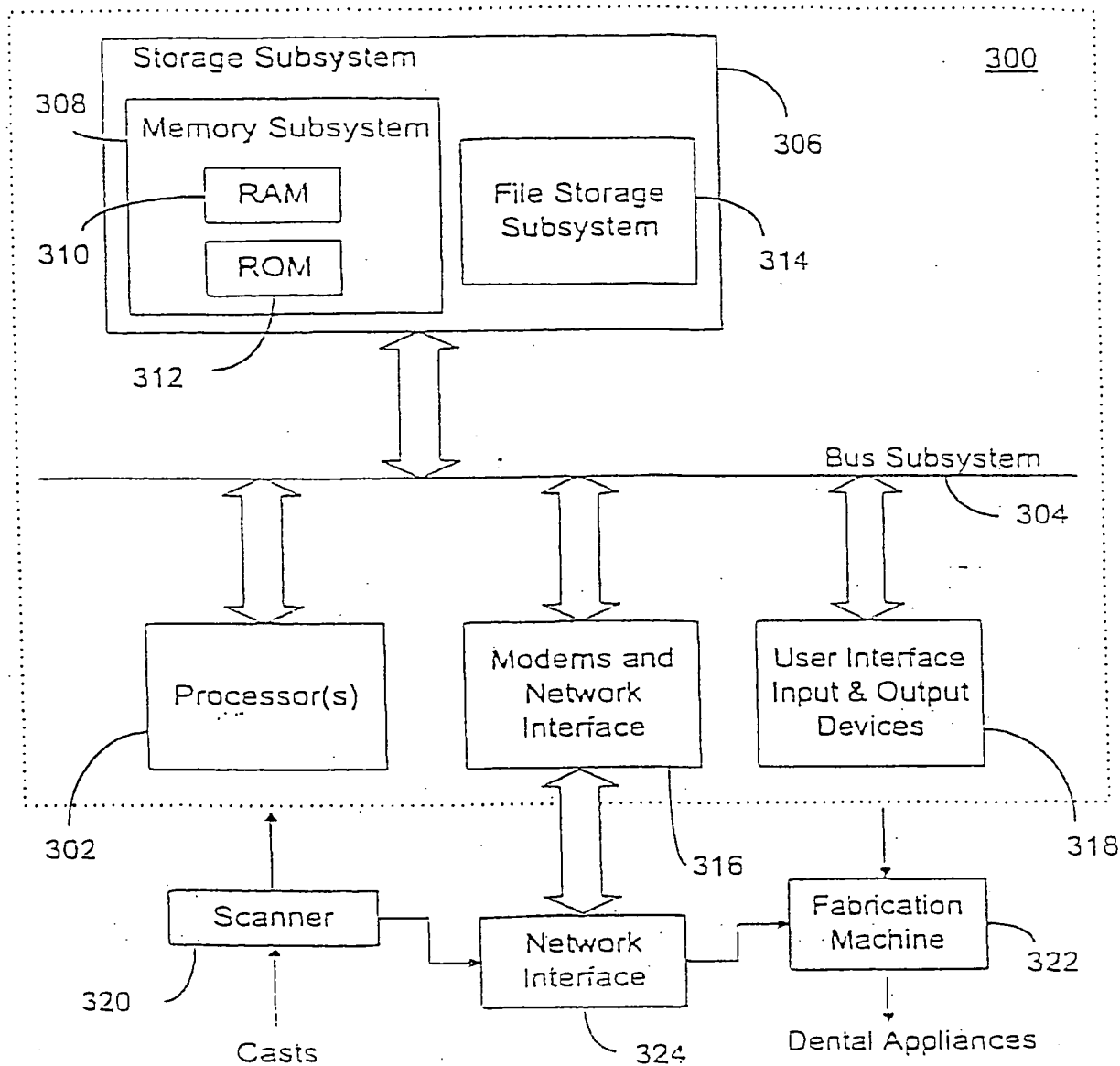


FIG. 11

001221" 5285460

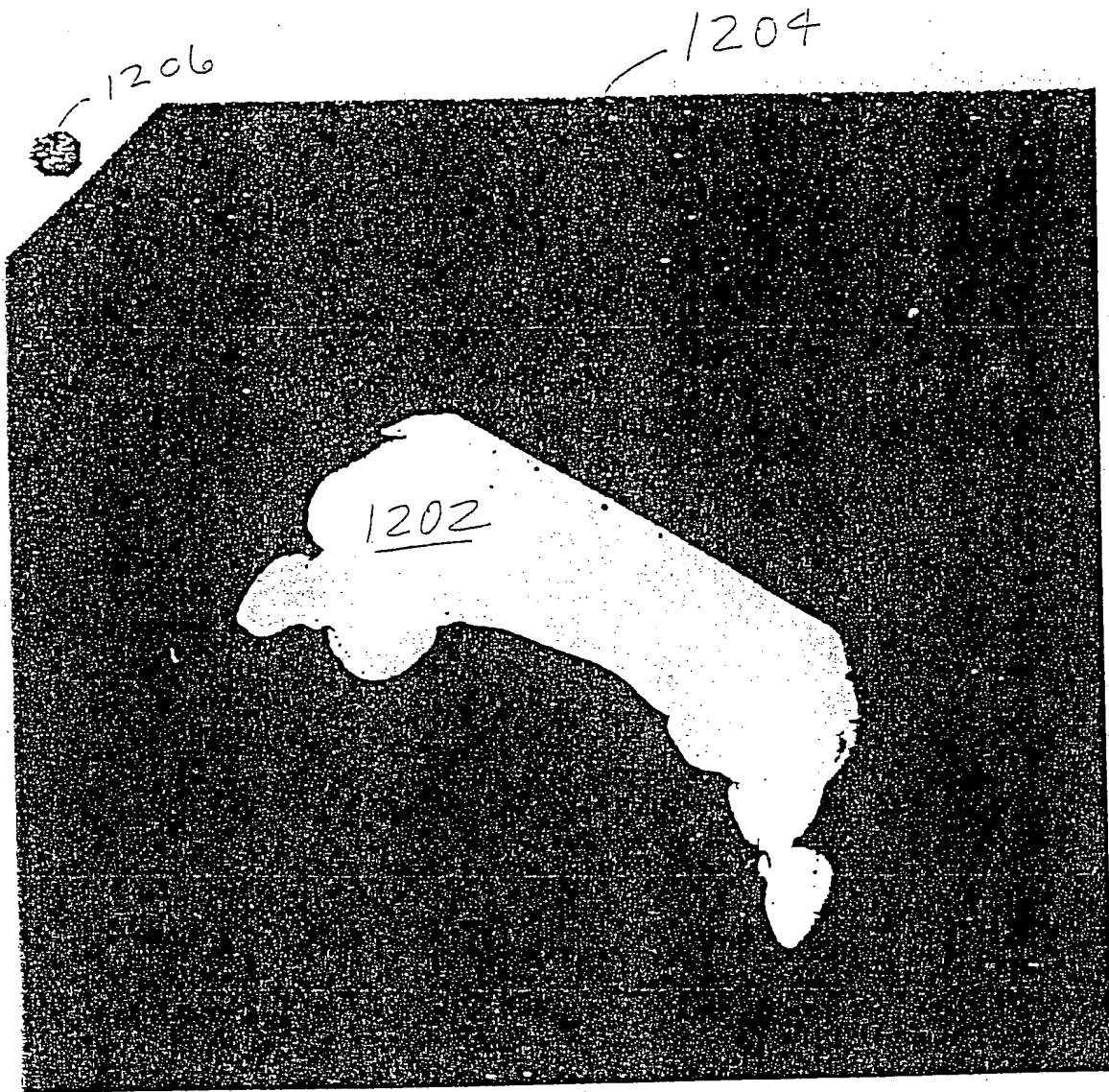


Fig. 12

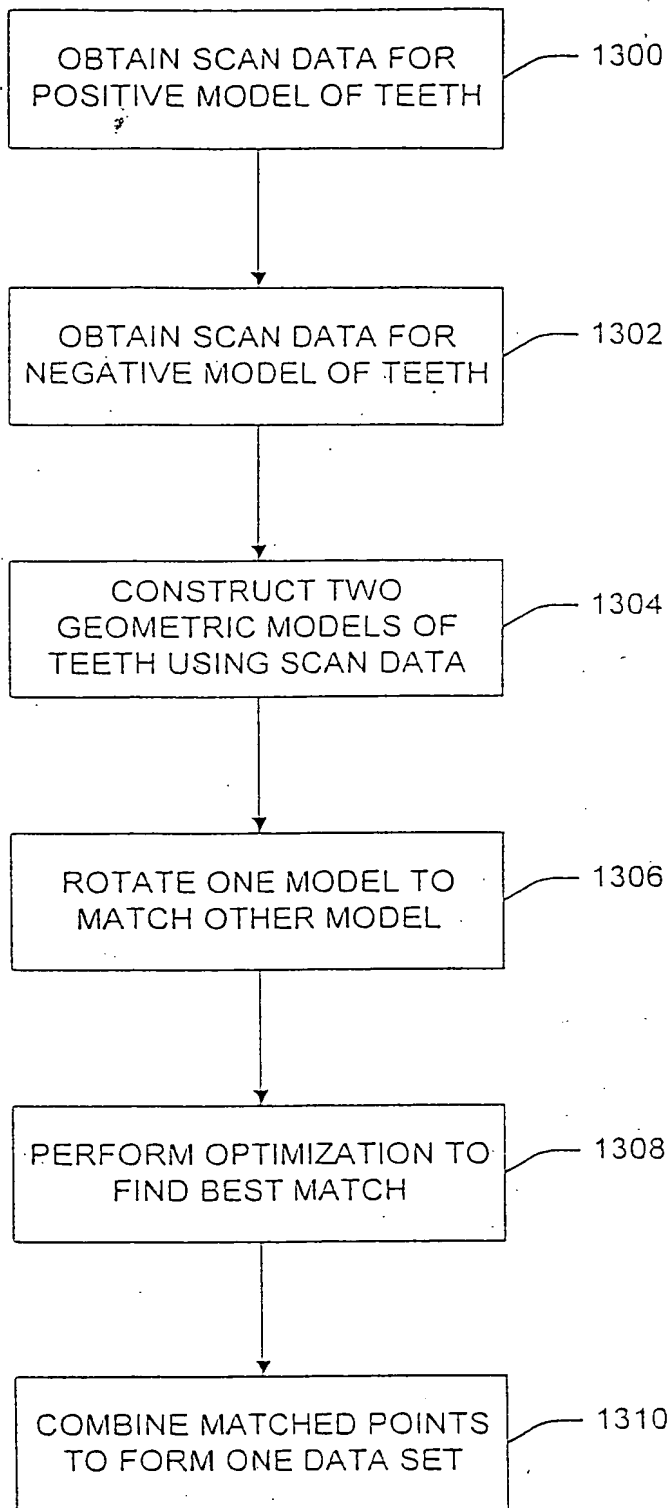


FIG. 13

001221 5285460

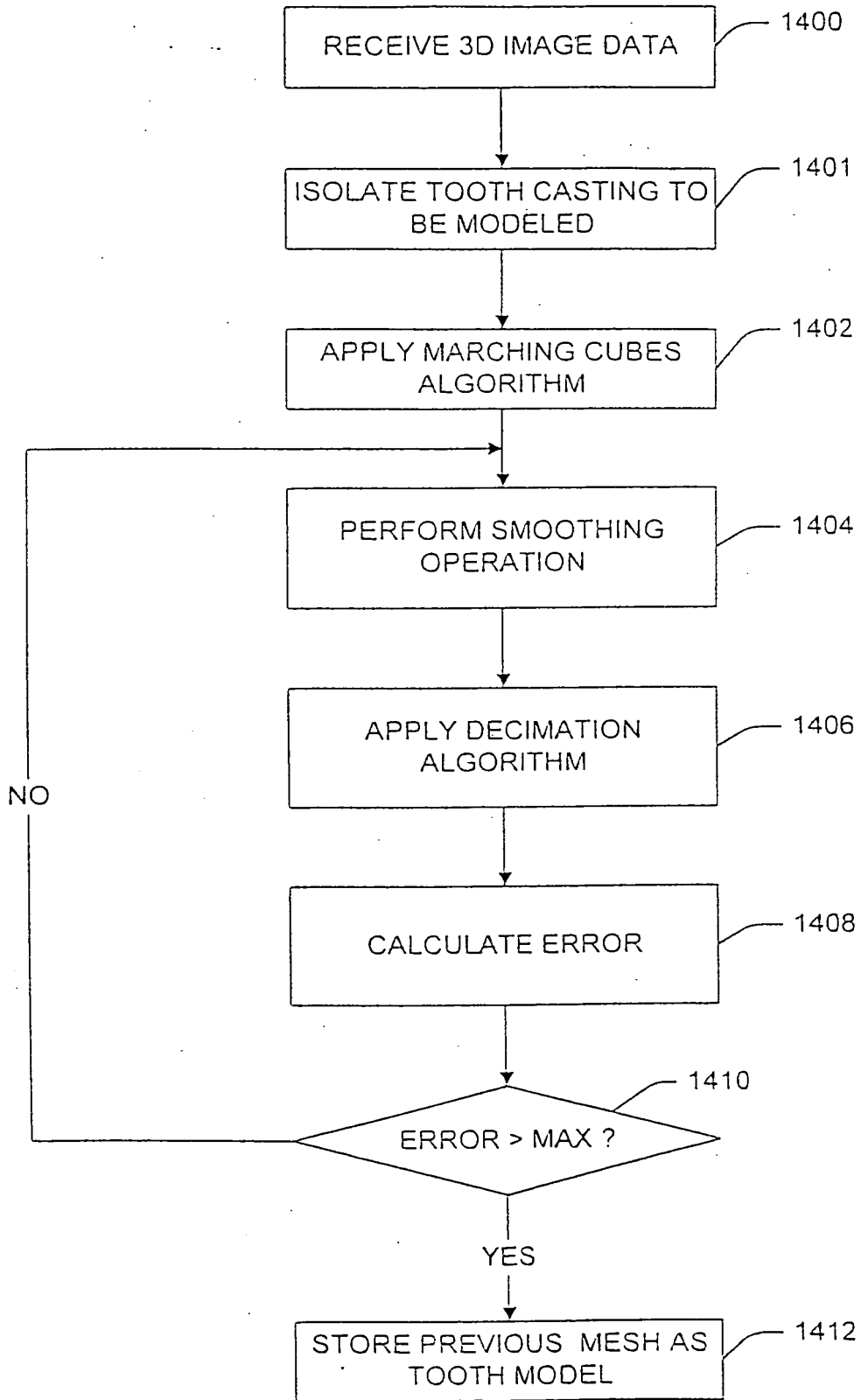


FIG. 14

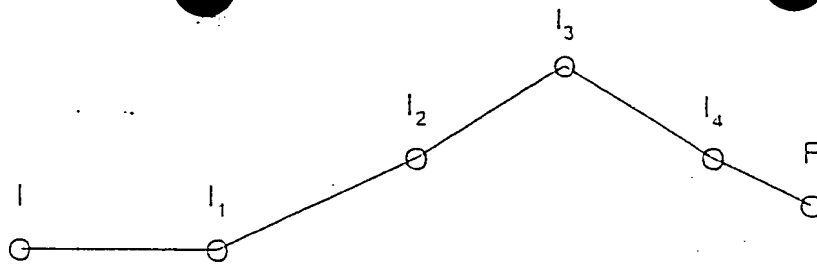


FIG. 15A

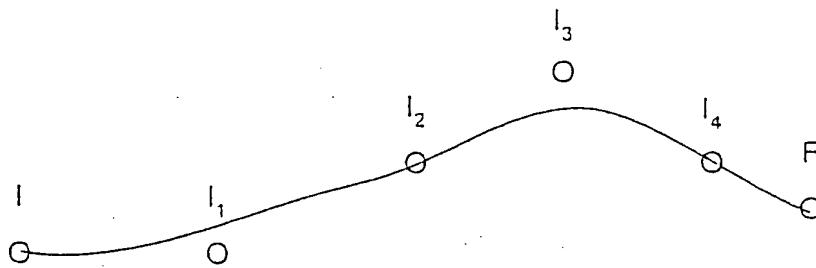


FIG. 15B

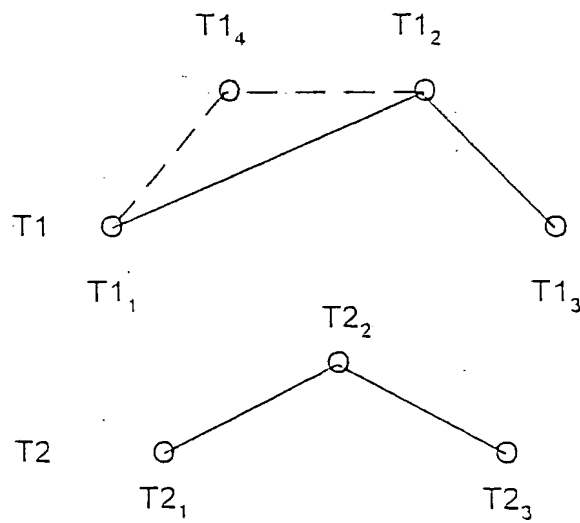


FIG. 15C

```

graph TD
    1600[SELECT INTERMEDIATE TOOTH POSITIONS] --> 1602[CREATE SPLINE CURVES]
    1602 --> 1604[SAMPLE BETWEEN INTERMEDIATE TOOTH POSITIONS]
    1604 --> 1606{COLLISIONS?}
    1606 -- YES --> 1608[ALTER AT LEAST ONE PATH IN EACH COLLIDING PAIR]
    1608 --> 1602
    1606 -- NO --> 1610[STORE PATHS]

```

FIG. 16

09745825-122100

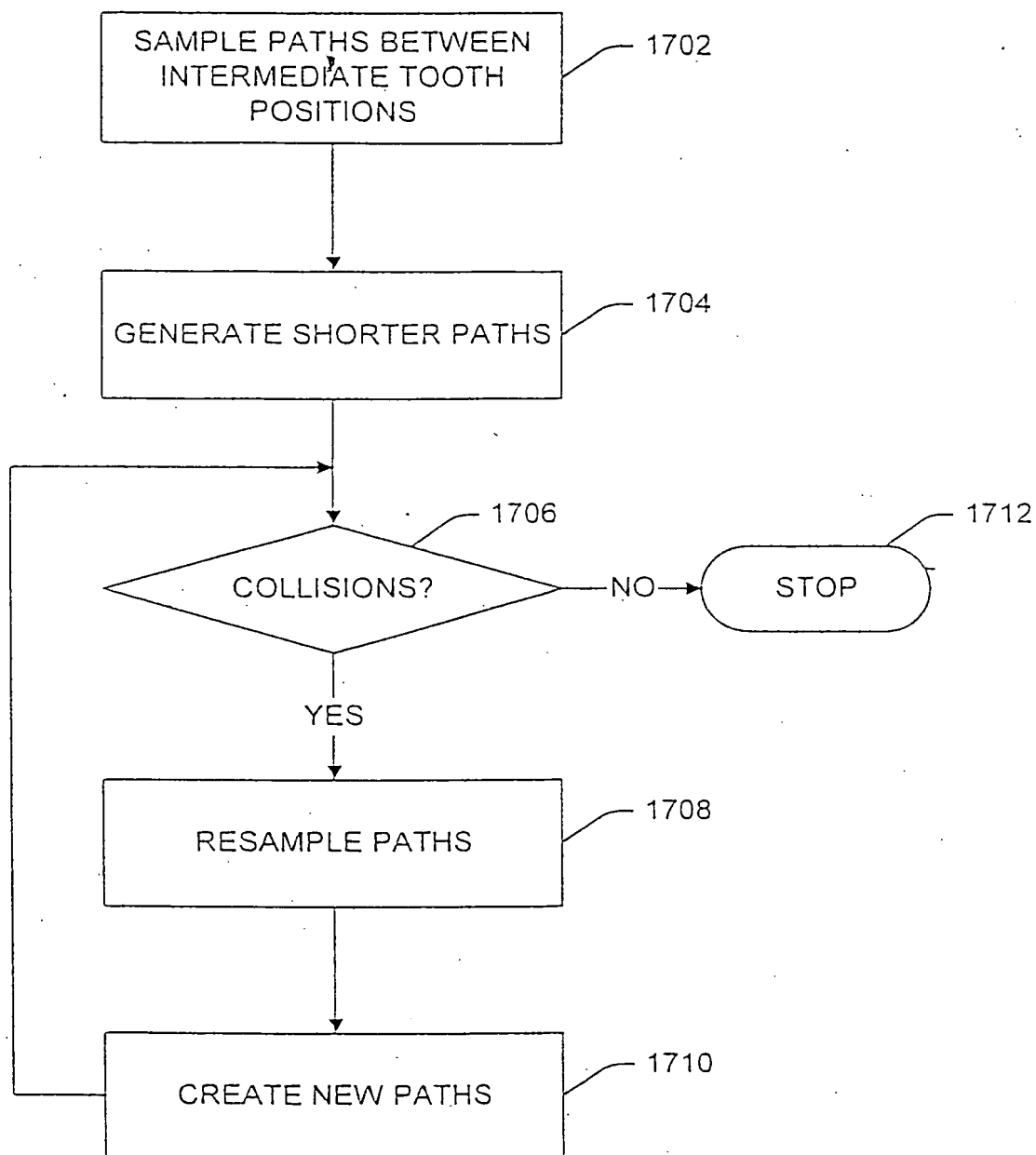


FIG. 17

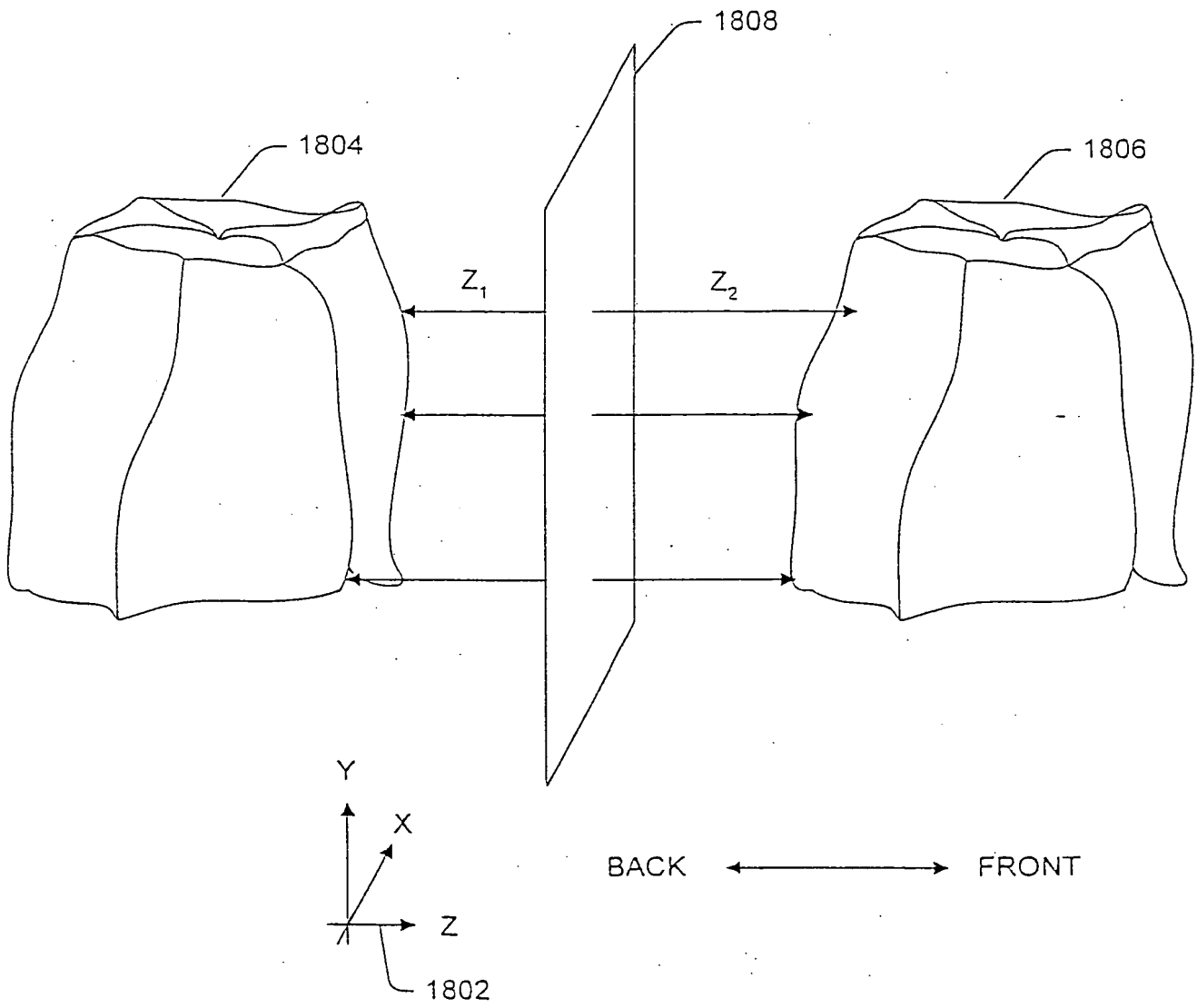


FIG. 18

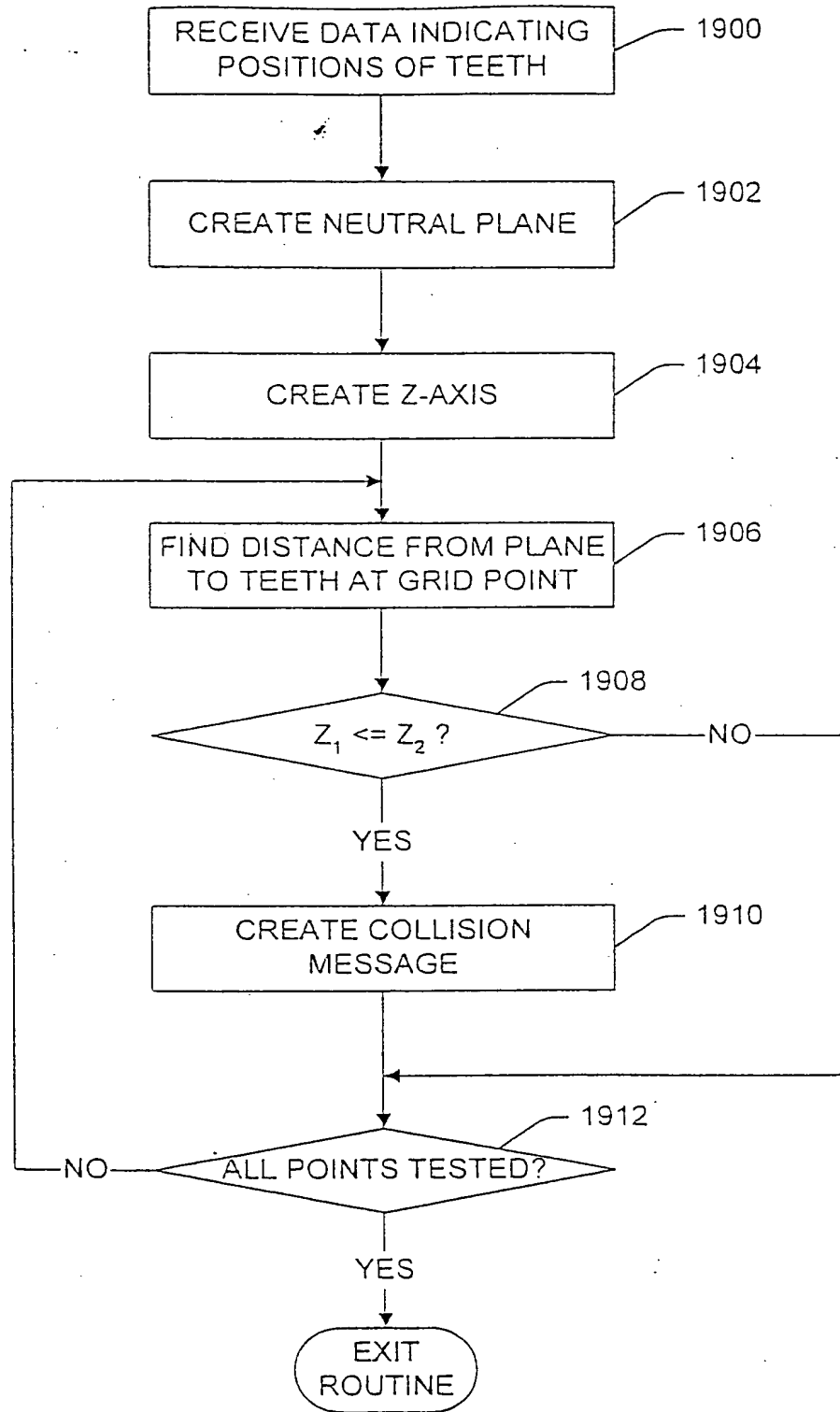
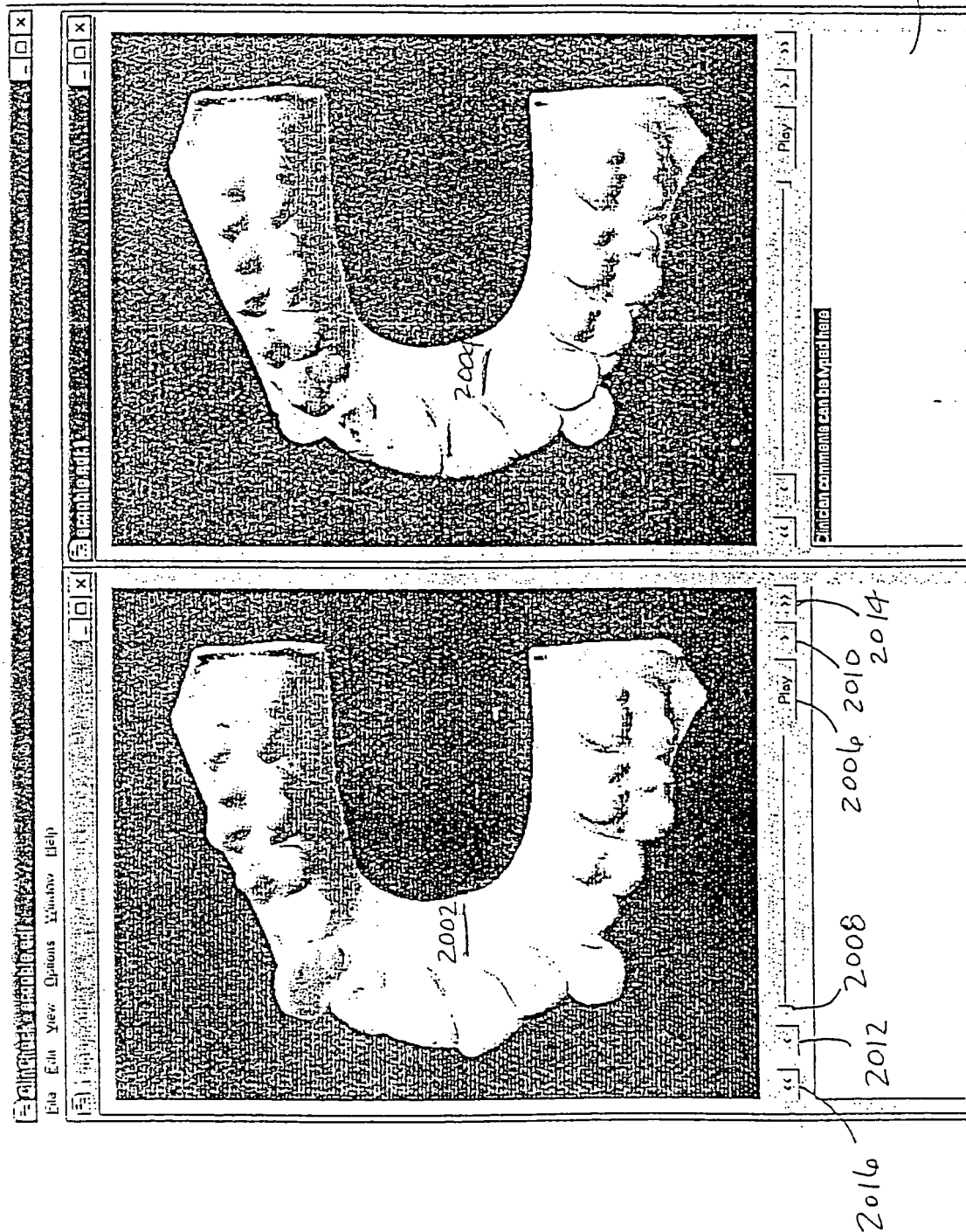


FIG. 19

007221" 52854260

2000



2018

FIG. 20

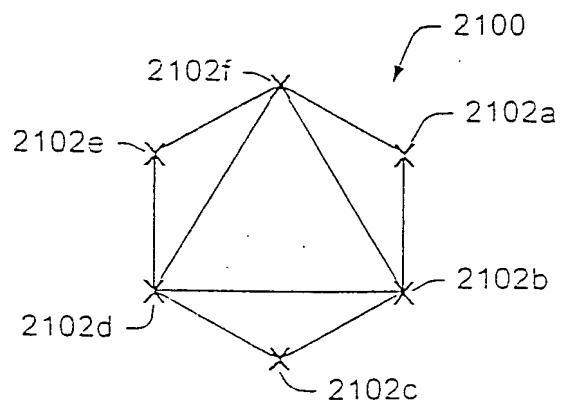


FIG. 21A

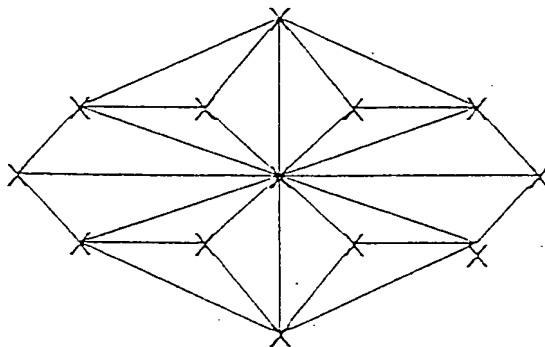


FIG. 21B

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ **BLACK BORDERS**

☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**

☐ **FADED TEXT OR DRAWING**

☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**

☐ **SKEWED/SLANTED IMAGES**

☒ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**

☐ **GRAY SCALE DOCUMENTS**

☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**

☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**

☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.